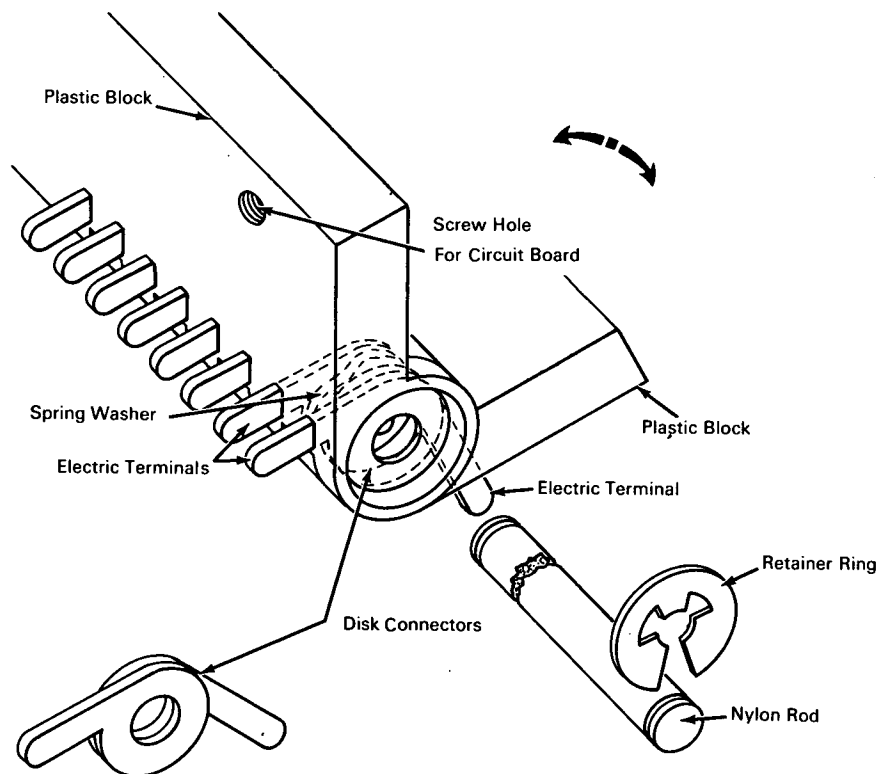


NASA TECH BRIEF



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Device Serves as Hinge and Electrical Connector for Circuit Boards



The problem:

To design a device that will make both sides of electrical circuit boards readily accessible for component checkout and servicing.

The solution:

A hinge that provides for the mounting of two circuit boards and incorporates connectors which will maintain continuous electrical contact between the components on both boards.

How it's done:

The hinge consists of two plastic blocks with pairs of electrically conductive disks internally spaced along the hinge. Each disk has an arm that serves as an electric terminal, and the two disks in each pair are held in constant contact by spring washers and are arranged so that the arms extend in opposite directions. The hinge block assembly is held together by a single nylon rod with snap-on retainer rings at each

(continued overleaf)

end of the rod. The terminal arms on each hinge block are inserted into corresponding terminal slots on each circuit board. Plastic screws are used to secure the boards to the blocks.

Note:

Inquiries concerning this invention may be directed to:

Technology Utilization Officer
Marshall Space Flight Center
Huntsville, Alabama 35812
Reference: B66-10359

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C. 20546.

Source: P. G. Bethel and G. G. Harris
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under contract to
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